

System And Method For Receiver Resource Allocation and Verification

GOUNALIS, Anthony J.



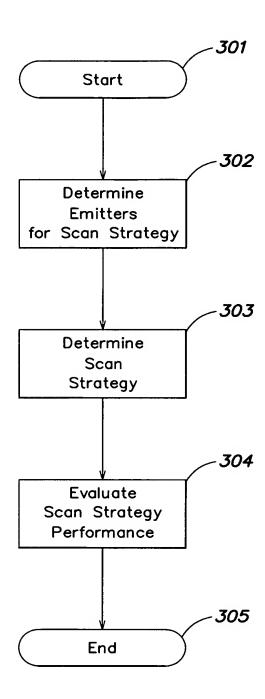


FIG. 3

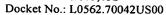
System And Method For Receiver Resource Allocation and Verification

GOUNALIS, Anthony J. Serial No.: 10/675,132 Docket No.: L0562.70042US00

		40	Emitter Database <b>401</b>	Emitte Entry <b>403</b> /	
1		Emitter	Parameters	ľ	
	Emitter Model	Dwell Solution(s)	Constraints	Rules	
			• .		
			•		
N					

FIG. 4

GOUNALIS, Anthony J. Serial No.: 10/675,132



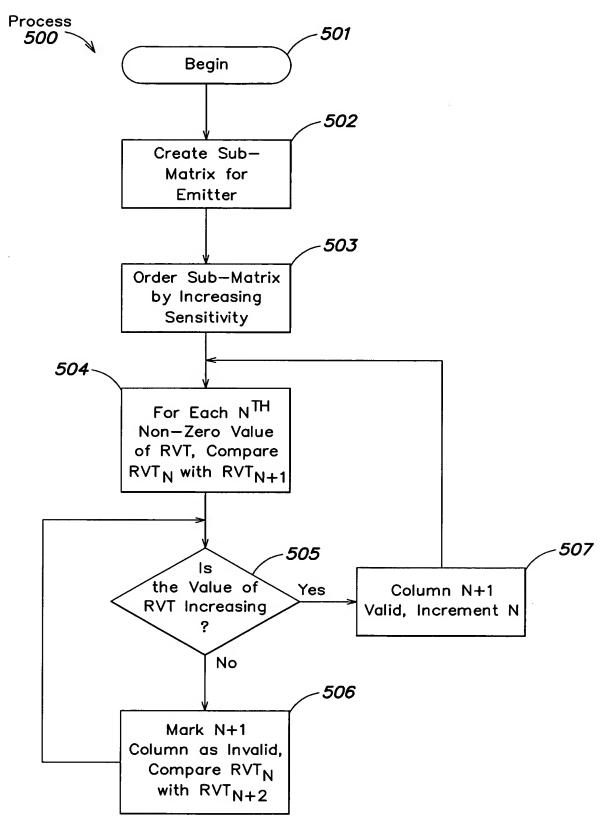
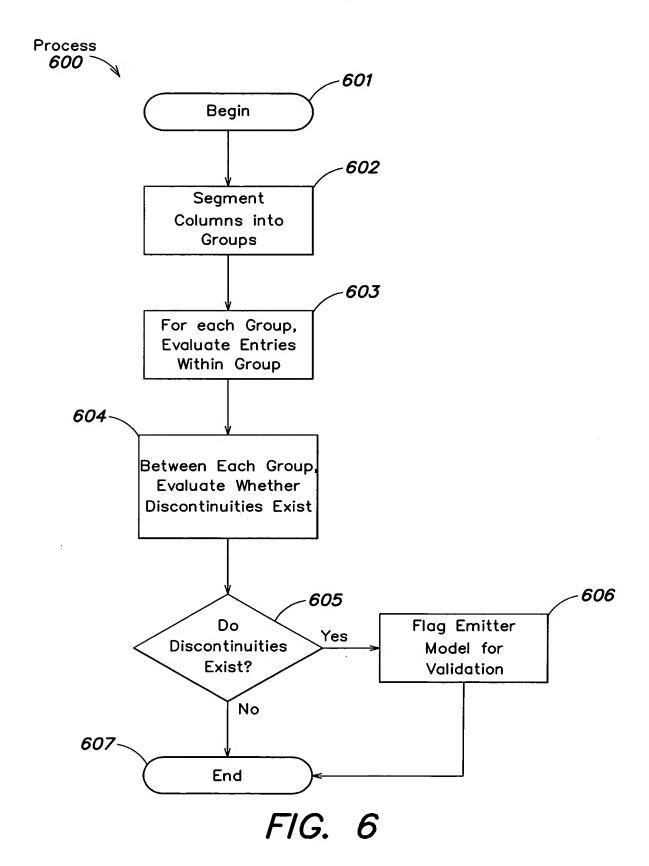
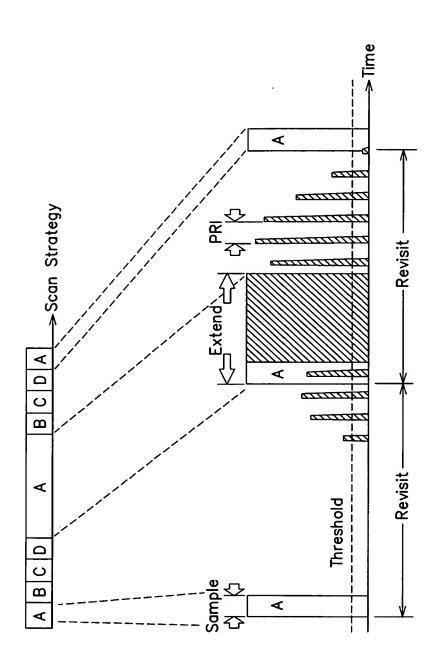
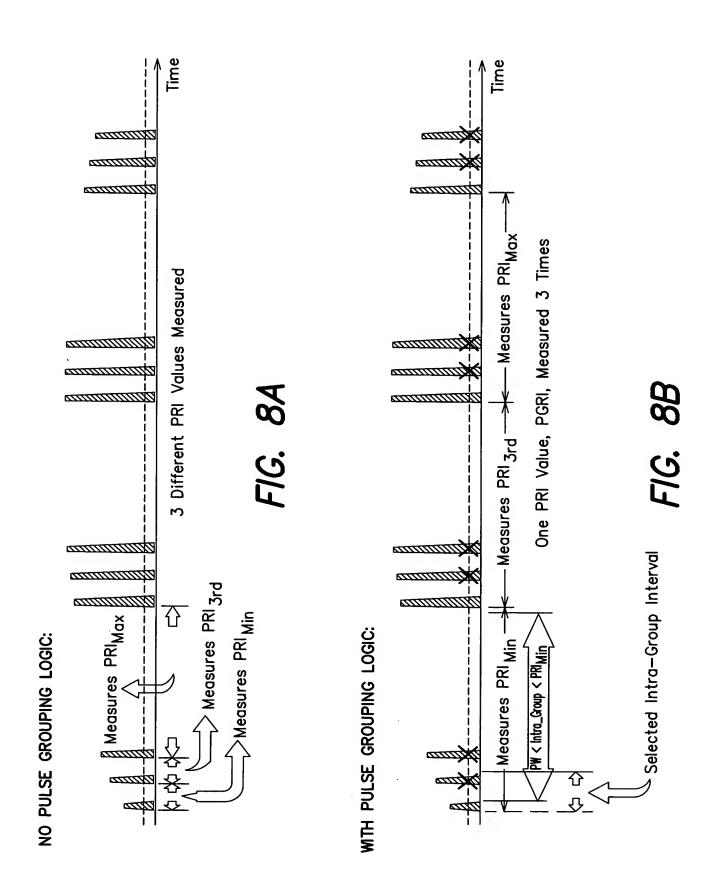


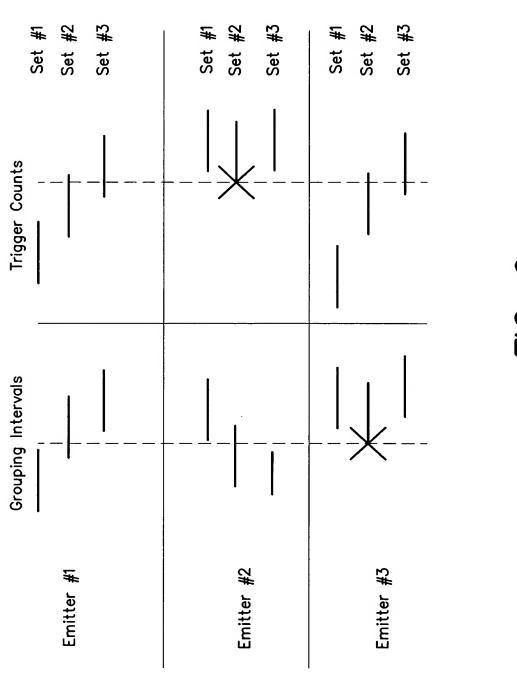
FIG. 5

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.

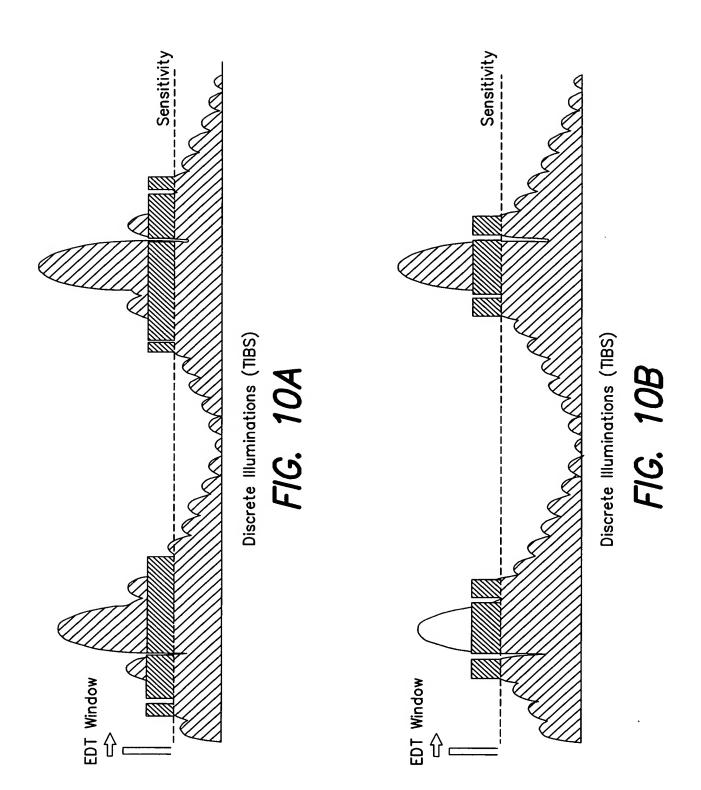




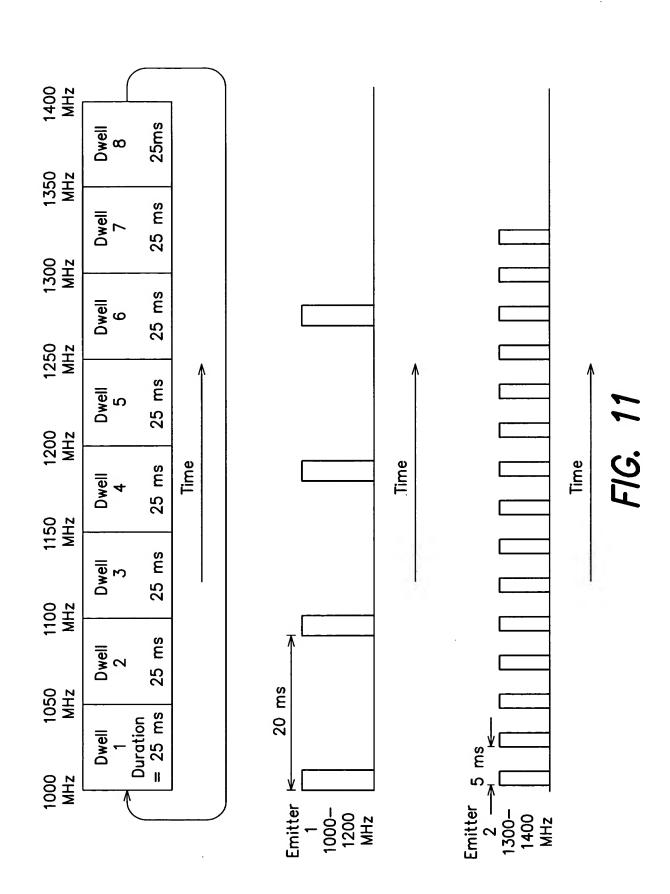


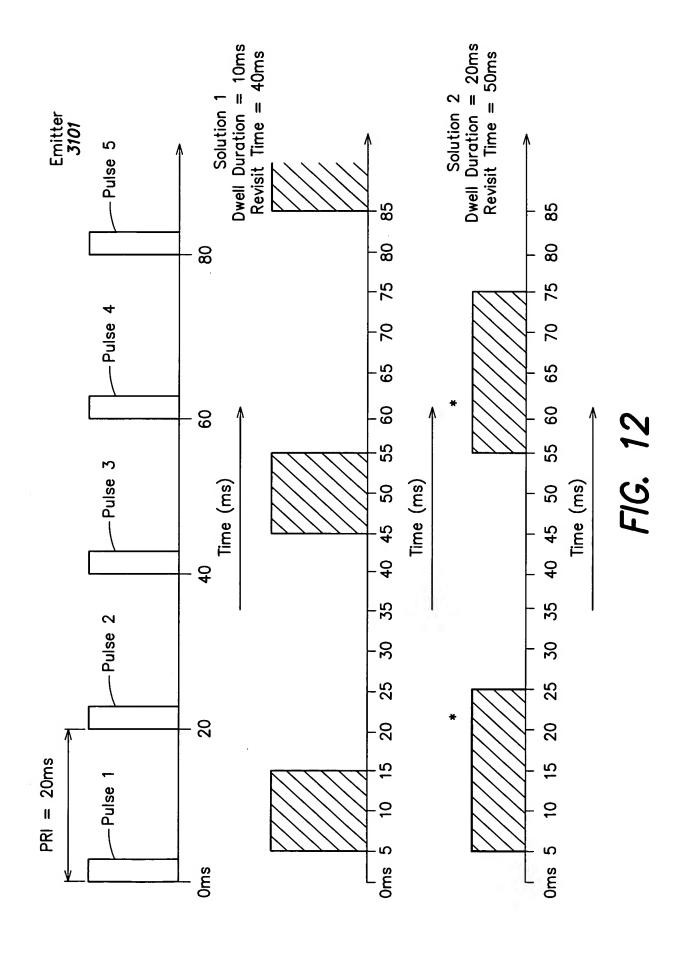


F/G. 9



System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J. Serial No.: 10/675,132





System And Method For Receiver Resource

Allocation and Verification GOUNALIS, Anthony J. Serial No.: 10/675,132 Docket No.: L0562.70042US00

Min MDT (ms)	2	5	2	4
RF Max (MHz)	1300	1350	1810	1860
RF Min (MHz)	1000	1220	1510	1730
Detecting Method 2 30MHz IF/ 15MHz VBW RVT	650 ms	780 ms	330 ms	390 ms
Detecting Method 1 250MHz IF/ 15MHz VBW RVT	100 ms	120 ms	110 ms	130 ms
Emitter Name	E1	E2	E3	E4

		100			0		C doi+iloo	1	Total	. ,
1250					0 1270	Dwell 9	DD Max 5	RVTMin	650	+ Cost = 5/650
					1210 1240	Dwell 8	DD Max 5	RVT <sub>Min</sub>	650	+ Cost + 5/650
					1180 12	Dwell 7	DD Max	RVT <sub>Min</sub>	650	+ Cost + 3/650
				05	1150 11	Dwell 6	DD Max	RVTMin	650	+ Cost 3/650
	Dwell 1	$DD_{Max} = 5$	$RVT_{Min} = 100$	Cost = 5/100 = .05	1120 11	Dwell 5	DD Max	RVTMin	650	+ Cost 3/650
	۵	MOO	RVT	Cost :	1090 11	Dwell 4	DD Max	RVTMin	650	+ Cost 3/650
					1060 10	Dwell 3	DD Max	RVTMin	650	+ Cost 3/650
						Dwell 2	DD Max	RVT <sub>Min</sub>	650	+ Cost .
1000					1000 1030	Dwell 1	DD Max	RVTMin	650	Cost 3/650
=					7					

FIG. 14A

		Solution 1	
1510 1760	Dwell 1	DD <sub>Max</sub> = 4 ms RVT <sub>Min</sub> = 330 ms	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

		Solution 2					
1690 1720 1750 1780	Dwell 9	DD Max	RVT <sub>Min</sub> 330 ms				
20 175	Dwell 1 Dwell 2 Dwell 3 Dwell 4 Dwell 5 Dwell 6 Dwell 7 Dwell 8 Dwell 9	DD Max	RVT <sub>Min</sub> 330 ms				
90 17	Dwell 7	DD <sub>Max</sub>	RVT <sub>Min</sub> 330 ms				
	Dwell 6	DD Max 2	RVT <sub>Min</sub> 330 ms				
1630 1660	Dwell 5	DD Max 2	RVT <sub>Min</sub> RVT <sub>Min</sub> RVT <sub>Min</sub> 330 ms				
	Dwell 4	DD <sub>Max</sub>	RVT <sub>Min</sub> 330 ms				
1570 1600	Dwell 3	DD <sub>Max</sub>	RVT <sub>Min</sub> 330 ms				
40 15	Dwell 2	DD Max	RVTMin 330 ms				
1510 1540	Dwell 1	DD Max	RVT <sub>Min</sub> 330 ms				

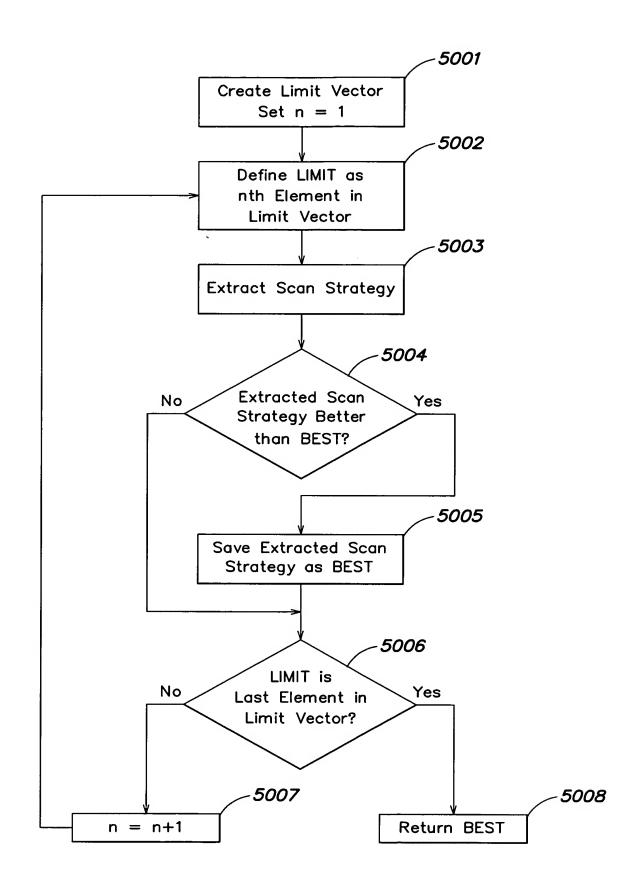


FIG. 15

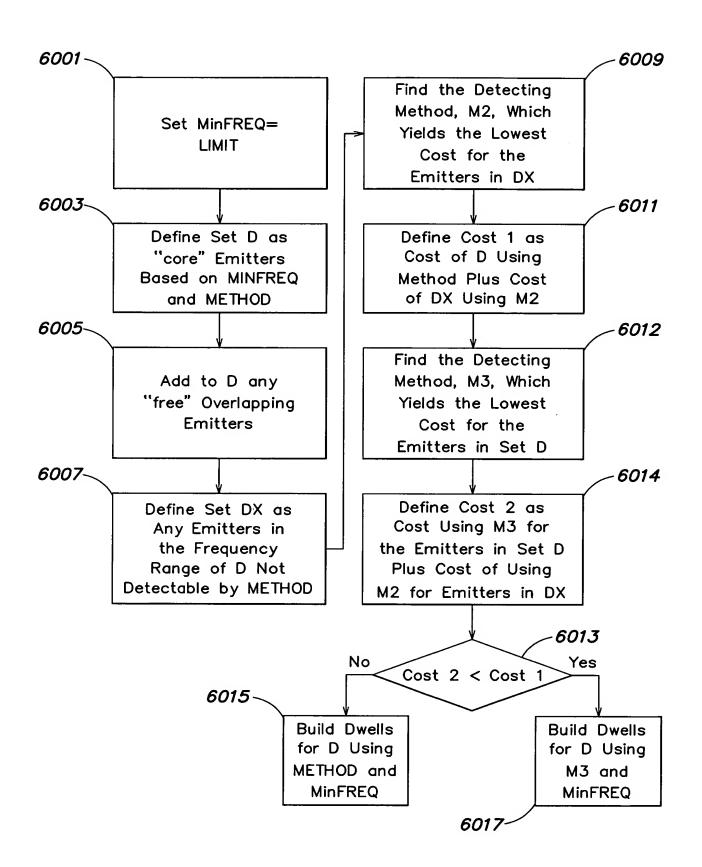


FIG. 16

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.

Name	RF Min	RF Max
E1 '	1100	1200
E2	1150	1250

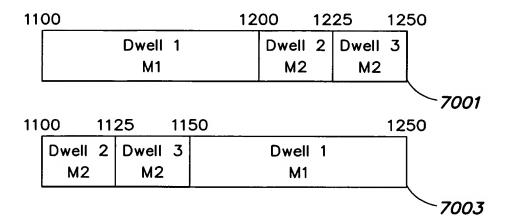


FIG. 17

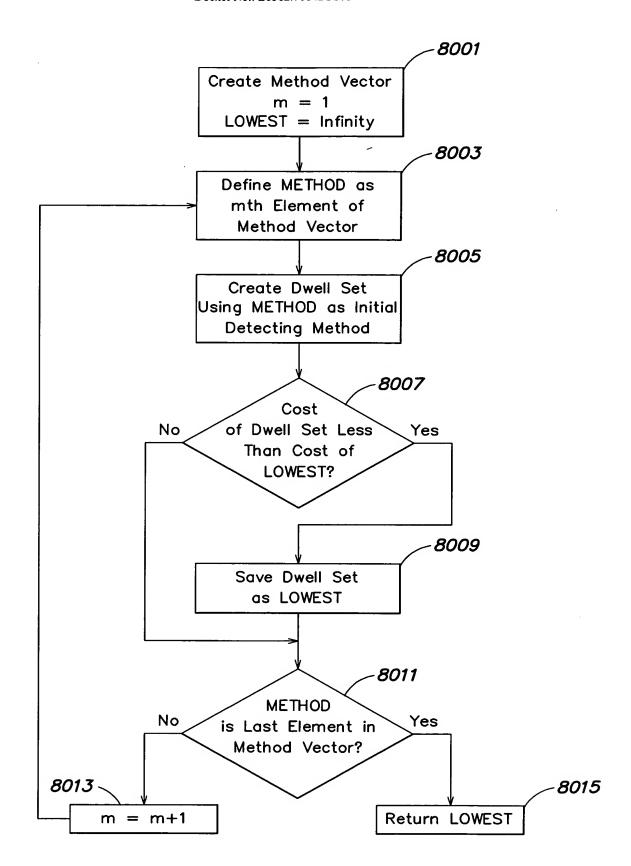


FIG. 18

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.

Serial No.: 10/675,132 Docket No.: L0562.70042US00

Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

FIG. 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

FIG. 20

Dwell 1	Dwell 1 Dwell 2 Dwell 2 Dwell 2	Dwell 1	Dwell 1 Dwell 2								
							·········	-			
200	1000	1500	2000	2500	3000	3500	4000	4500	2000	5500	0009
					Time (ms)	ms)	,				
							<b>^</b>				
				Ħ	FIG. 21	7					

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.

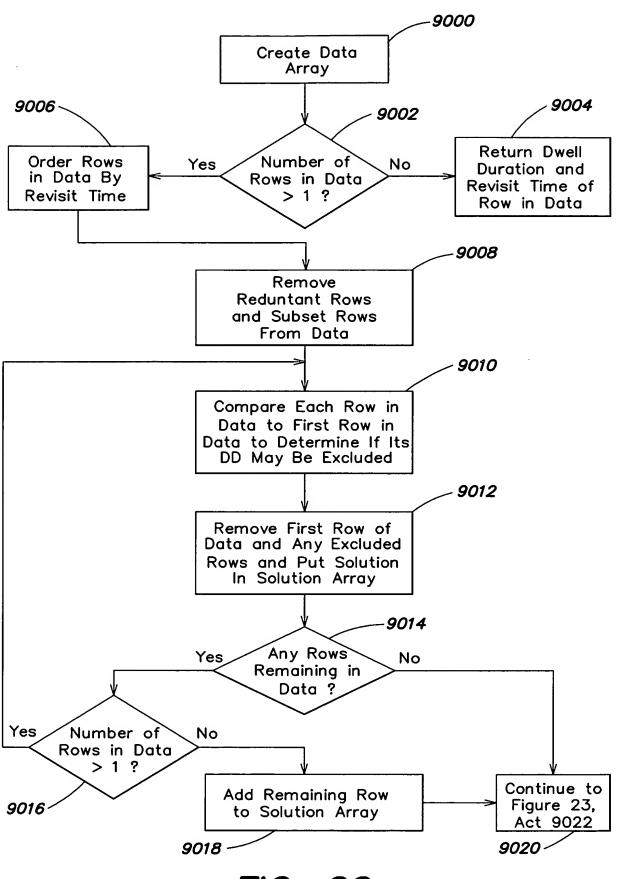


FIG. 22

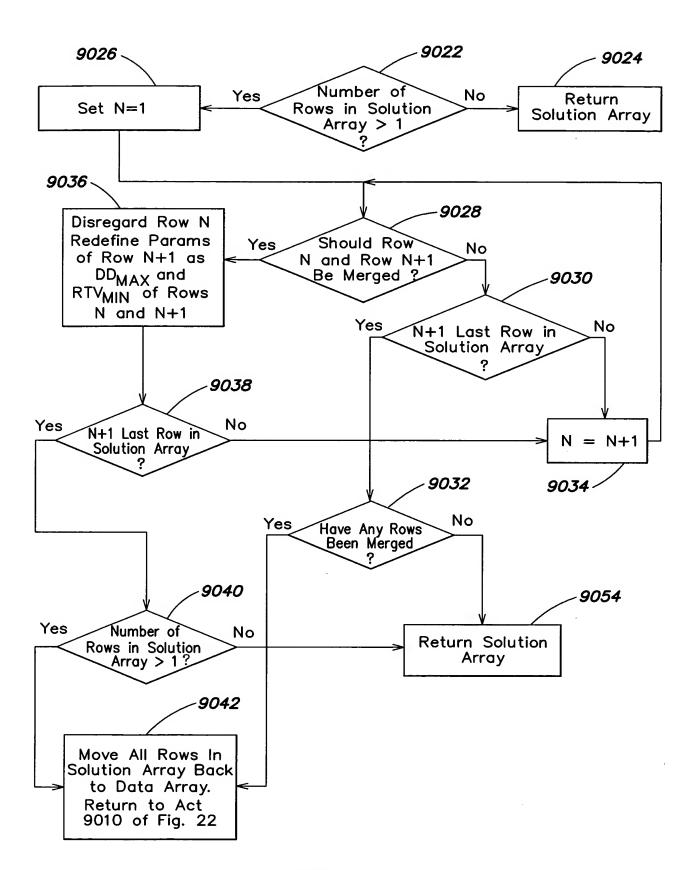


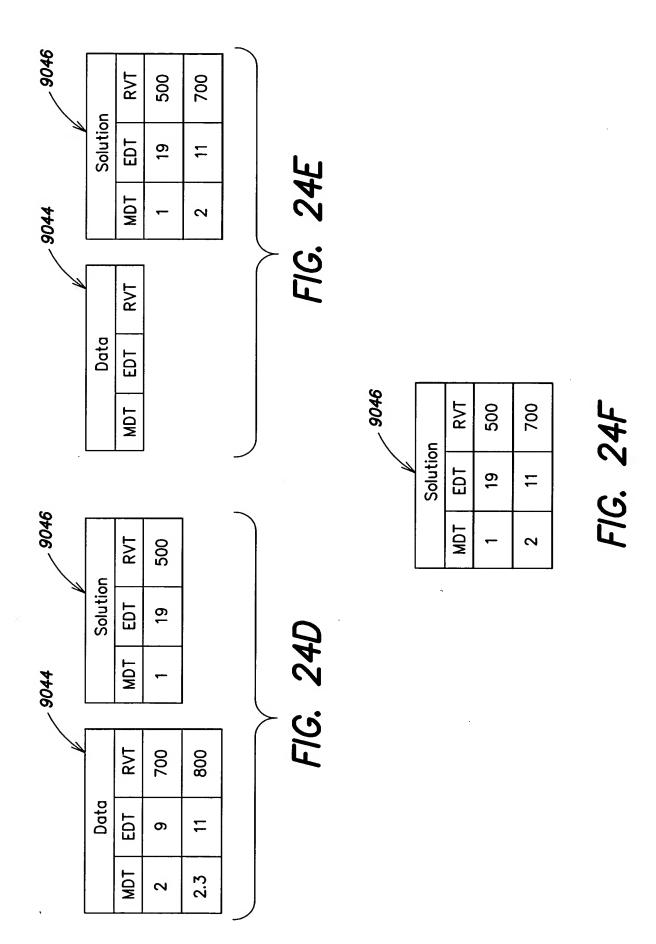
FIG. 23

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J. Serial No.: 10/675,132

						9051	— 9052		
9044		RVT	200	700	800	2000	2868		
	Data	EDT	4	თ	=	19	17		
		MDT	-	2	2.3	ы	3.05		
9044						9048	9049	- 9050	
		RVT	200	700	800	1000	2000	2000	2868
	Data	EDT	7	6	11	3.5	19	19	17
		MDT	1	2	2.3	0.5	2	2	3.05
9044									
		RVT	2868	2000	2000	200	700	800	1000
	Data	EDT	17	19	19	2	6	11	3.5
		MDT	3.05	3	3	-	2	2.3	0.5

FIG. 24C

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.



System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J. Serial No.: 10/675,132

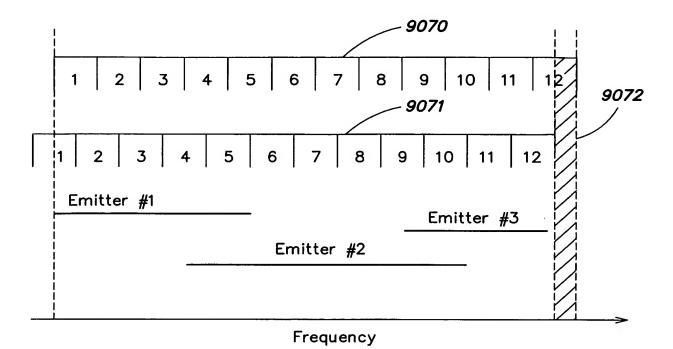


FIG. 25

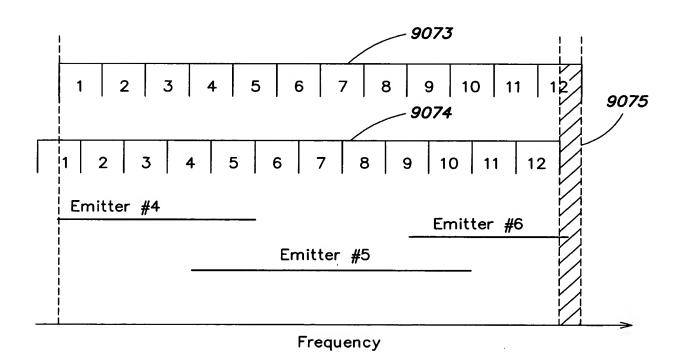
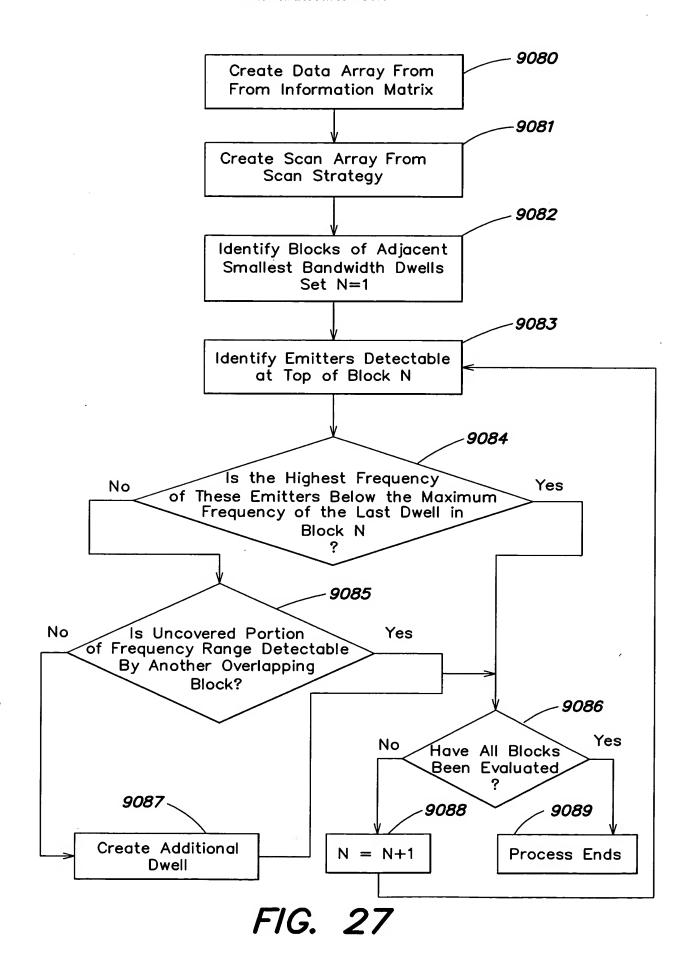
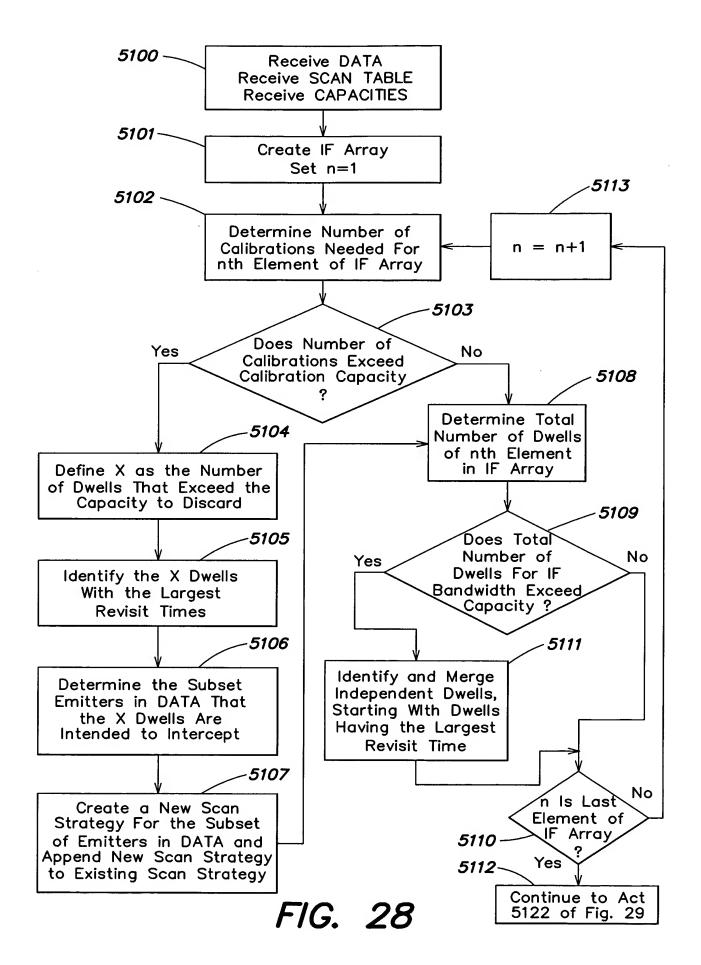


FIG. 26

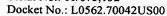


System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J.

Serial No.: 10/675,132



GOUNALIS, Anthony J.
Serial No.: 10/675,132



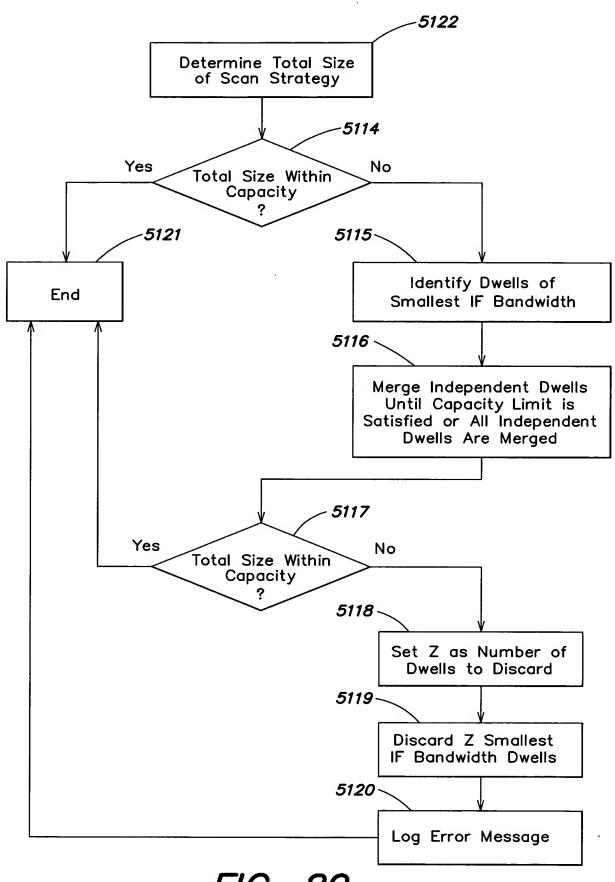
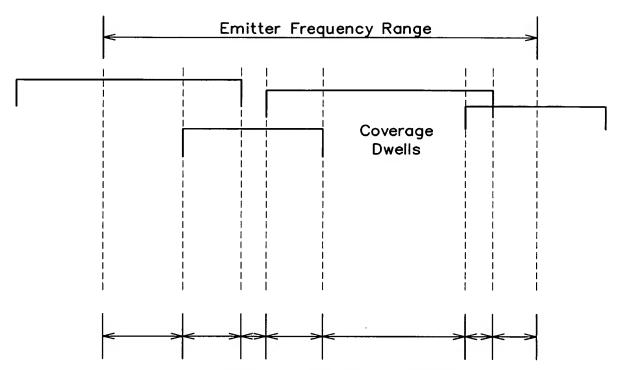


FIG. 29

System And Method For Receiver Resource Allocation and Verification GOUNALIS, Anthony J. Serial No.: 10/675,132



Frequency Ranges of Interest

FIG. 30

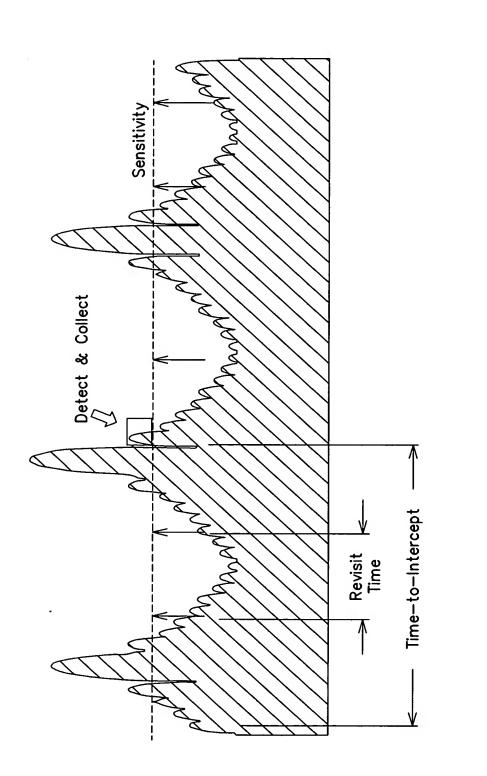


FIG. 31

System And Method For Receiver Resource Allocation and Verification

GOUNALIS, Anthony J. Serial No.: 10/675,132 Docket No.: L0562.70042US00

